

Catalogue of American Amphibians and Reptiles.

John, R.R., M.J. Rivera Rodríguez, E.J. Bentz, R.W. Henderson, and R. Powell. 2012. *Gonatodes daudini*.

***Gonatodes daudini* Powell and Henderson**
Union Island Gecko

Gonatodes daudini Powell and Henderson 2005:709.

Type-locality: "Water Rock Reserve on the northern slope of Mt. Taboi above Chatham Bay (elev. ~ 120 m), Union Island (12°35'N, 61°25'W), St. Vincent and the Grenadines." Holotype, University of Kansas Natural History Museum (KU) 275717, an adult male collected by M. de Silva and M. Harvey on 9 May 2005 (examined by RWH and RP).

Gonatodes daudinii: Gamble, Bauer, Greenbaum, and Jackman 2008:91. *Lapsus*.

• **CONTENT.** No subspecies are recognized.

• **DEFINITION.** *Gonatodes daudini* is among the smallest members of the genus (maximum known SVL for males 31.0 mm, of females 29.0 mm; Bentz et al. 2011). It has a pointed snout, a bright red-orange iris, and 39–44 scales around midbody (Powell and Henderson 2005). Scales along the midventral line between the anterior margin of the forelimbs and vent number 34–38. Proximal subdigital lamellae are as wide as the digits, and number 18–22 under the fourth toe. Two lateral rows of scales are present on the distal portions of fingers and toes. The tail bears two enlarged single midventral scales, each in contact with one laterodistal scale per side, followed by a divided midventral in contact with two laterodistal scales per side. Males and females bear three conspicuous pairs of dorsolateral white spots surrounded concentrically first by black and then by red.

• **DIAGNOSIS.** *Gonatodes daudini* is distinguished from other congeners by large body scales (39–44 scales around midbody versus >70 in all congeners), small SVL (to 31.0 mm), a bright red-orange iris, and



FIGURE 1. *Gonatodes daudini* from the type-locality above Chatham Bay on Union Island, St. Vincent and the Grenadines (photograph by M.J. Rivera Rodríguez).



MAP. The distribution of *Gonatodes daudini*; the circle indicates the type-locality and dots mark other known records.

a body pattern consisting of three prominent dorsolateral pairs of ocelli (Powell and Henderson 2005).

• **DESCRIPTIONS.** The only published description is the original by Powell and Henderson (2005).

• **ILLUSTRATIONS.** Color photographs appear in Anonymous (2006), Quinn et al. (2010), Bentz et al. (2011), Hedges (2011), Rivera Rodríguez et al. (2011), and Sánchez Muñoz (2011), and other websites devoted to geckos. Black-and-white photographs are in Powell and Henderson (2005; holotype, two paratypes, and the dorsum) and Daudin and de Silva (2007, 2011). A color photograph also graces a poster promoting tourism on Union Island (see also Strategy Forum Inc. 2006).

• **DISTRIBUTION.** *Gonatodes daudini* is currently known only from the vicinity of the type-locality on Union Island, St. Vincent and the Grenadines, at elevations from near sea level to ~300 m. These lizards are closely associated with large rock outcrops and boulder jumbles, and use refugia in rock crevices, leaf litter, beneath moist rotting logs, and under termite mounds (Bentz et al. 2011).

• **FOSSIL RECORD.** None.

• **PERTINENT LITERATURE.** Pertinent references are listed by topic: general natural history (Henderson and Powell 2009), phylogeny (Gamble et al.

2008a,b), behavior (Rivera Rodríguez et al. 2011), microhabitat use, activity periods, and population densities (Bentz et al. 2011).

Gonatodes daudini is included in checklists, keys, faunal accounts, and general works by Daudin and de Silva (2007, 2011), Vitt and Caldwell (2009), Quinn et al. (2010), Hedges (2011), Henderson and Breuil (2012), and a variety of on-line databases.

• **REMARKS.** *Gonatodes daudini* is listed as “Critically Endangered” on the IUCN Red List (Powell and Henderson 2011).

• **ETYMOLOGY.** The specific epithet, *daudini*, is a patronym honoring Jacques Daudin, an ardent conservationist who compiled and edited “A Natural History Monograph of Union Island” (Daudin 2003).

• **ACKNOWLEDGEMENT.** John S. Parmerlee, Jr. prepared the map.

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